

# Touchstone TG3442VF

## DOCSIS3.1 Telephony/ Data Gateway

### FEATURES:

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM DOCSIS® 3.0 channels
- Full Capture Bandwidth Tuner
- Multi Processor Technology with ARM and ATOM based Application Processor
- 4 port Gigabit Ethernet Router
- Switchable upstream and downstream filters for 85MHz and 204 MHz operation.
- 4x4:4 Integrated Dual Band Concurrent 5GHz 802.11 ac Wave2 radios and 3x3:3 2.4GHz 802.11n for high performance WLAN
- Multiple SSID support with DFS channels and Dynamic Channel change
- Multiple operator controlled configuration options
- Designed for enhanced application support



### PRODUCT OVERVIEW:

The TG3442VF Telephony Wireless Gateway supporting DOCSIS 3.1 allows unprecedented data rates to be delivered to MSO customers. The TG3442VF, along with the 4x4:4 802.11ac Dual Band Wireless radios, offers superior Wi-Fi performance enabling video over Wi-Fi. The switchable US/DS diplex filter is designed to produce superior RF performance and ease of deployment on a DOCSIS3.1 network while allowing to change the frequency plan. Increased DRAM, Flash and Multiple embedded processor cores are designed to allow new applications to be deployed on the Gateway. This feature-packed unit is intended to serve as the hub of the subscribers network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customers premises.

The TG3442VF will help lead the future to advanced home and small business services.

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**TG3442VF****D3.1 Telephony Wireless Gateway**

## Specifications

**Physical**

Operating Temperature °C	0 to 40
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature °C	-40 to 70
Dimensions (H x W x D) mm.	285 x 106 x 115
Weight kg	0.934
Diagnostic LED's (Front)	Dual color: Power Wi-Fi WPS Internet Voice
Diagnostic LED's (Rear)	Ethernet Link/Speed

**Interfaces**

RF Interface	1 External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Analog Telephony Interface	2 lines; RJ-11
Input Voltage (nominal)	12V DC
AC-DC	External

**RF Downstream**

Bonded Channels	Up to 32 SCQAM or 2 OFDM
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108MHz-1218MHz DOCSIS
Data Rate (Mbps Max.)	Up to 4 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

**Transport**

Giftbox dimensions (H x W x D) mm	123 x 233 x 285
Number of products per carton	6
Carton dimensions (H x W x D) mm	245 x 595 x 394
Carton per layer	4
Number of layers per pallet	4
Number of products per pallet	96
Pallet dimensions (H x W x D incl pallet) mm	1105 x 1200 x 800
Number of products per container	4416

**RF Upstream**

Bonded Channels	Up to 8 SCQAM or 2 OFDMA
Frequency Range (MHz)	5MHz to 204 MHz
Configurable Diplex Filter	85MHz-204MHz
Data Rate (Mbps Max.)	up to 1 Gbps
RF Output Level (dBmV)	+65 dBmV (64 QAM, single upstream) +57dBmV (64QAM, 4-8 Upstreams) +65 dBmV (16 QAM, single Upstreams)

**Wireless**

Frequency Range	2.4GHz and 5GHz
Transmit Power (from any antenna)	+27dBm (MCS7) +26 dBm (MCS9)
Spatial Streams	3 for 2.4GHz, 4 for 5GHz
Receive Levels	2.4GHz - <-88dBm 802.11n (MCS0) , <-71dBm 802.11n (MCS7), HT20 5.0GHz - <-84dBm 802.11ac (MCS0) , <-57dBm 802.11ac (MCS9), VHT80
Antennas	7 transmit, and 7 receive (total)

**Ordering Information**

Model	Order number
TG3442VF-ES Production Kit	1000604
TG3442VF-ES Diagnostic Kit	1000625
TG3442VF-DE Production Kit	1000699
TG3442VF-DE Diagnostic Kit	1000700